

# Local Workforce Investment Area

## Yuma County LWIA

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Office of Employment and Population Statistics  
Arizona Department of Administration

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## AGENDA

- LMI in WIOA Local Plans
- Economic Overview
  - Local Demographics
    - Individuals with Barriers to Entry
  - Unemployment
  - Industry Growth
- Existing and Emerging In-Demand Industries and Occupations
- LMI Data Sources

## Local Plans [Sec. 108 (b)]

### – The local plan should include:

- An analysis of the regional economic conditions, including:
  - **Existing and emerging in-demand industry sectors and occupations**
  - The employment needs of employers in those industry sectors and occupations
- An analysis of the knowledge and skills needed to meet the employment needs of the employers in the region
- An analysis of the workforce in the region, including **current labor force employment data**, labor market trends, and **the education and skill levels of the workforce in the region**

**LMI should also be included in:**

## **Youth Workforce Investment [Sec. 129 (c)(2)(M)]**

- Program elements including **services that provide labor market information about in-demand industry sectors or occupations**

## **Training Services [Sec. 134 (C)(3)(G)(iii)]**

- Training Services should be **directly linked to an in-demand industry sector or occupation in the local area**

## **Career Services [Sec. 134 (e)(3)(A)(1)]**

- (iv) Labor exchange services including:
  - (I). job search and placement assistance and career counseling including
    - (aa). **information on in-demand industry sectors and occupations**

# Economic Overview

## YUMA LWIA

## How to use data:

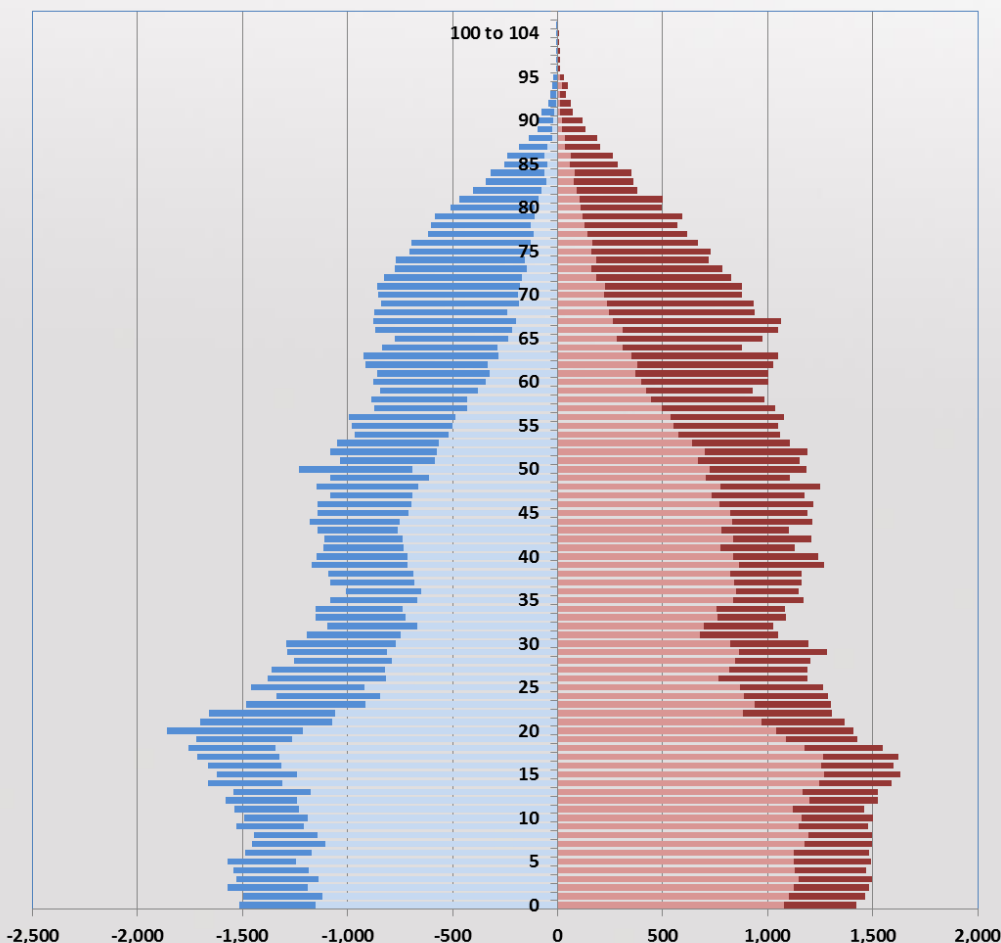
- Use data to drive decision, not validate decisions
- **Use more than one source of data** – don't lock yourself into a single estimate, consider all of the available data to get the most accurate picture
- **Know the limitations of your data set** – it's easy to accidentally misuse data and draw erroneous conclusions
- **Become familiar with different data sets (or someone who is)** – there is no one place to find all the data you need

Immerse yourself in the data

Be prepared to accept surprising surprises

## Yuma County Population

Hispanic Male Hispanic Female Non-Hispanic Male Non-Hispanic Female



## Yuma County

Census 2010

Total Population: 195,751

### Hispanic

Male 57,589 29.4%

Female 59,323 30.3%

### Non-Hispanic

Male 40,416 20.6%

Female 38,423 19.6%

Under 17 51,846 26.5%

Age 17 - 24 24,494 12.5%

Age 25 - 34 24,195 12.4%

Age 35 - 44 22,944 11.7%

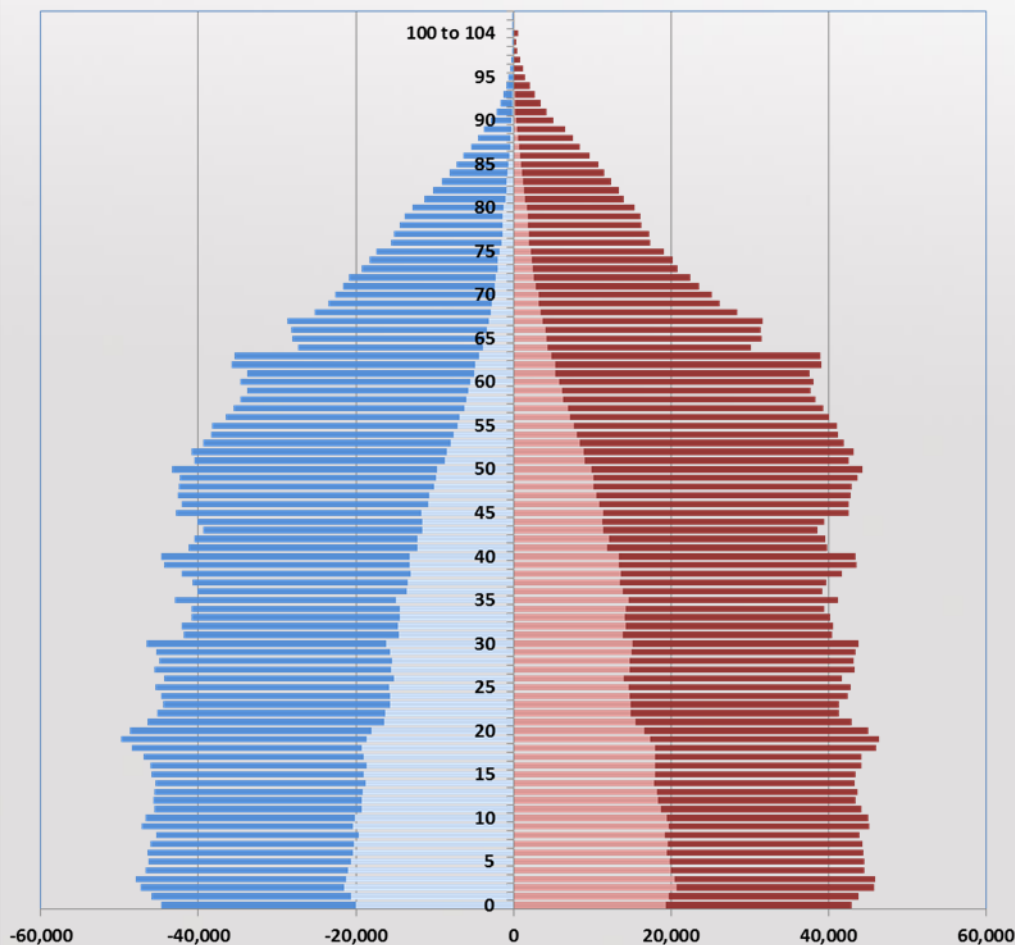
Age 45 - 54 22,598 11.5%

Age 55 - 64 19,028 9.7%

Over 64 30,646 15.7%

## Arizona Population

Hispanic Male Hispanic Female Non-Hispanic Male Non-Hispanic Female



## Arizona

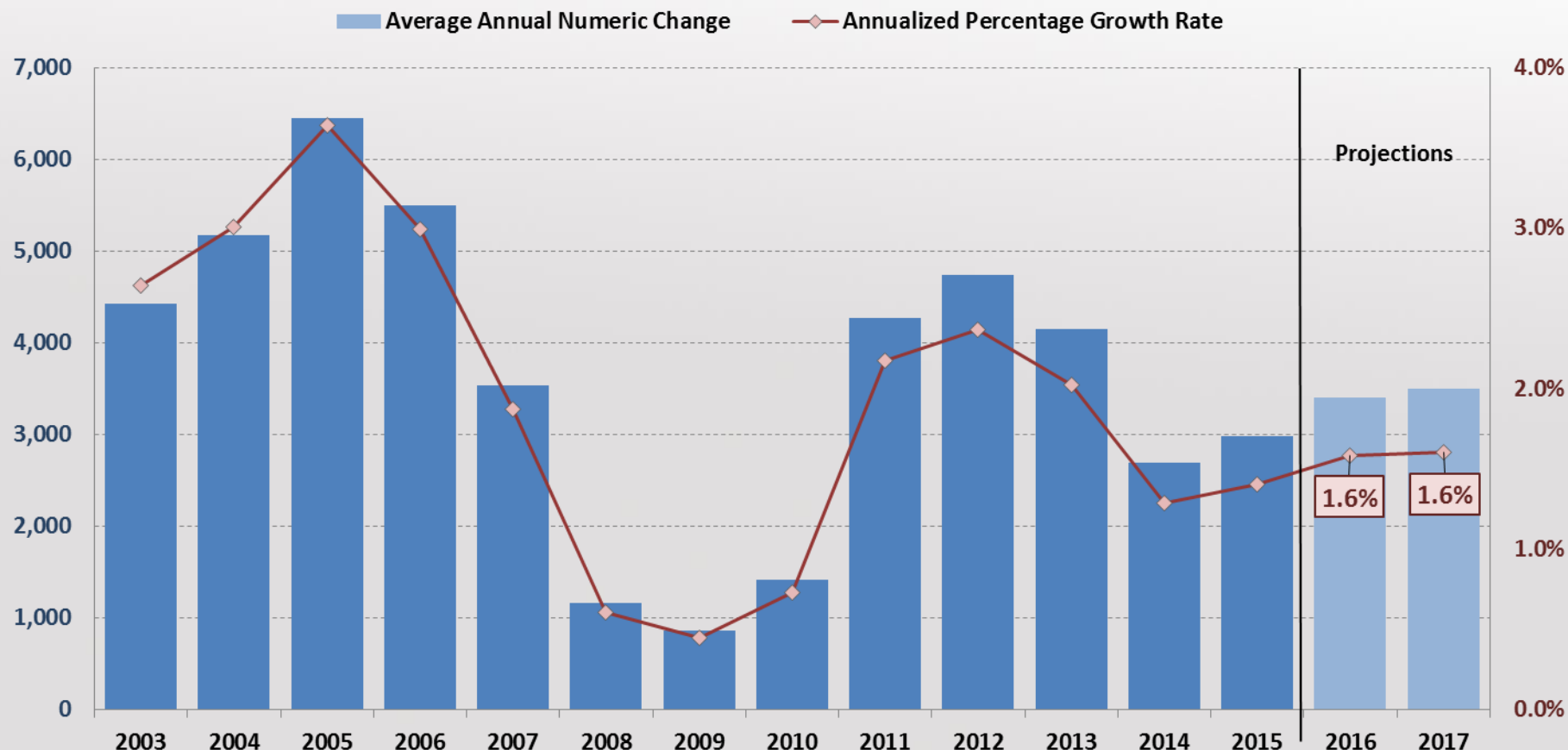
Census 2010

**Total Population:** 6,392,017

<b>Hispanic</b>	1,895,149	29.6%
<b>Male</b>	951,790	14.9%
<b>Female</b>	943,359	14.8%
<b>Non-Hispanic</b>	4,496,868	70.4%
<b>Male</b>	2,224,033	34.8%
<b>Female</b>	2,272,835	35.6%
<b>Under 17</b>	1,537,878	24.1%
<b>Age 17 - 24</b>	724,347	11.3%
<b>Age 25 - 34</b>	856,693	13.4%
<b>Age 35 - 44</b>	822,494	12.9%
<b>Age 45 - 54</b>	842,546	13.2%
<b>Age 55 - 64</b>	726,228	11.4%
<b>Over 64</b>	881,831	13.8%

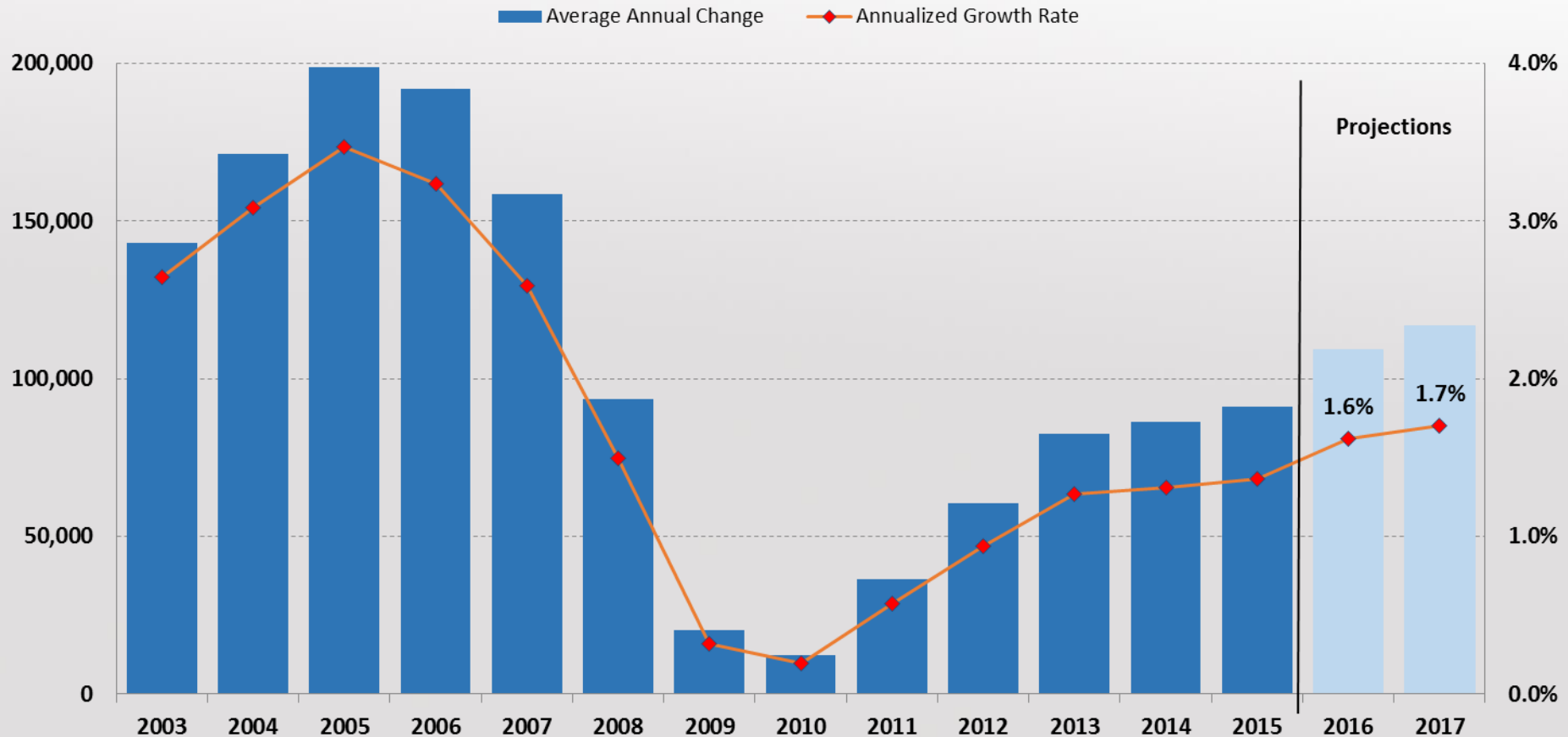


## Yuma County's Population Growth and Growth Rates



Source: Produced by the Arizona Office of Employment and Population Statistics using 2010 Census data in cooperation with the U.S. Census Bureau

## Arizona's Population Growth and Growth Rates, 2003-2017



Source: Produced by the Arizona Office of Employment and Population Statistics using 2010 Census data in cooperation with the U.S. Census Bureau

## Yuma County Quick Facts (2014)

	Yuma County	Arizona	United States
Median Household Income	\$41,380	\$49,928	\$53,482
Median Age	33.6	36.5	37.4
Individuals with a Disability Between 18-64	8.6%	9.9%	10.2%
Veterans	10.3%	10.0%	8.3%
Poverty Status	20.7%	18.2%	15.6%
Mean Travel Time to Work	19:00	24:42	25:42
Civilian Labor Force Participation Rate	53.1%	59.7%	63.5%
Population over 16	153,342	5,121,781	248,775,628

Source: Produced by the Arizona Office of Employment and Population Statistics using 2014 ACS 5-Year Estimates (DP03, S0501, S1810, S2101) in cooperation with the U.S. Census Bureau

# Highest Educational Level Achieved (Population over 25, 2014)

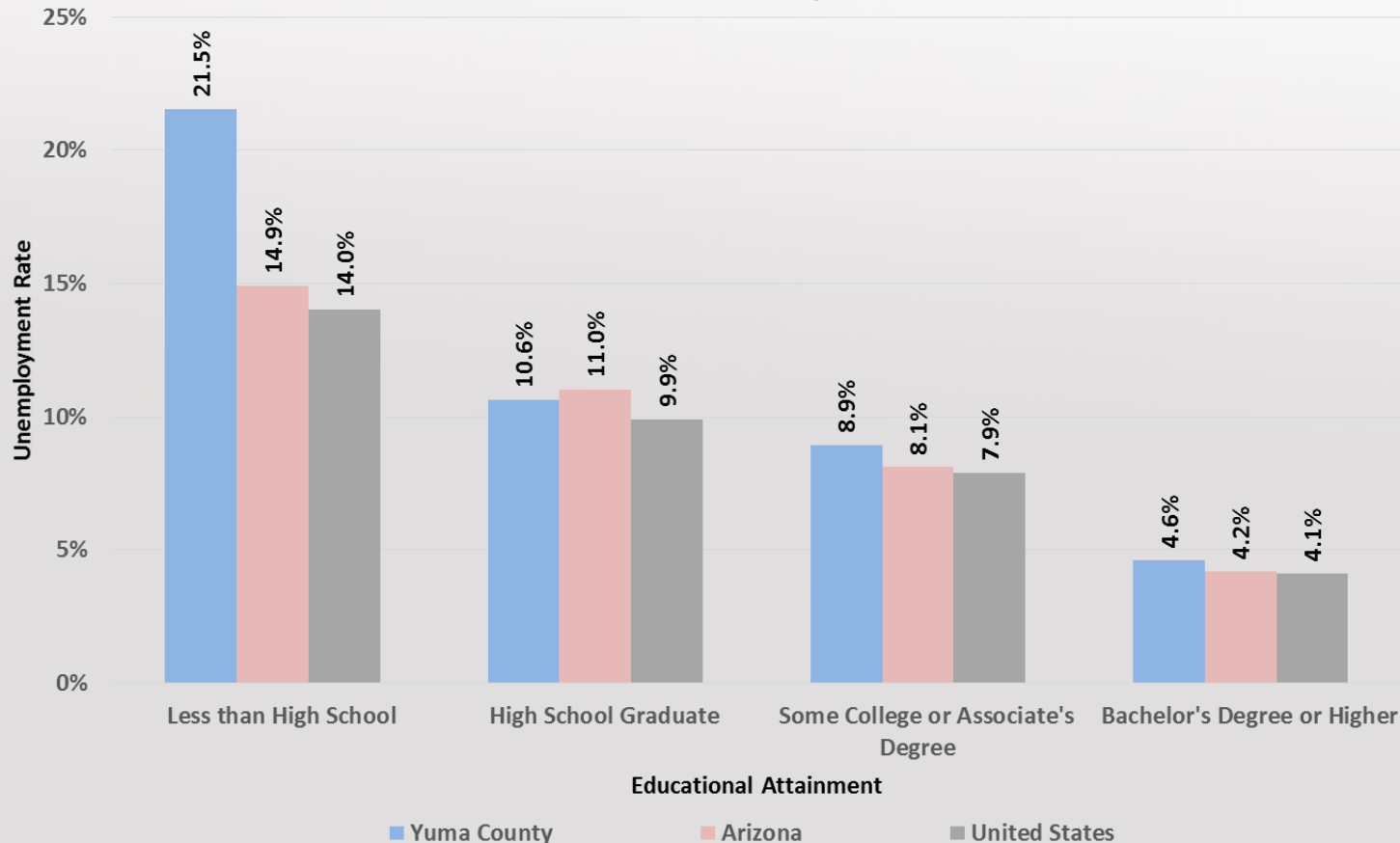
	Yuma County	Arizona	United States
Less than High School	28.3%	14.1%	13.6%
High School Graduate (includes equivalency)	50.7%	50.4%	49.2%
Associate's Degree	7.0%	8.4%	7.9%
Bachelor's Degree	9.3%	17.1%	18.3%
Graduate or Professional Degree	4.7%	10.0%	11.0%

Source: Produced by the Arizona Office of Employment and Population Statistics using 2014 ACS 5-Year Estimates (S1501) in cooperation with the U.S. Census Bureau

- **Less than High School is a significant share of the Yuma workforce**

## Unemployment Rates by Educational Attainment (Ages 25-64)

Yuma County 2014



Source: Produced by the Arizona Office of Employment and Population Statistics using 2014 ACS 5-Year Estimates (B23006) in cooperation with the U.S. Census Bureau

- **Unemployment decreases with higher levels of education**

## Yuma County Public Assistance Households (2014)

	Yuma County	Arizona	United States
TANF (Temporary Assistance for Needy Families)	1.5%	2.5%	2.8%
SSI (Supplemental Security Income)	4.3%	4.2%	5.3%
SNAP (Supplemental Nutrition Assistance Program)	20.5%	13.6%	13.0%
Medicaid/AHCCCS (Arizona Health Care Cost Containment System) (Individuals)	17.4%	20.0%	17.8%

Source: Produced by the Arizona Office of Employment and Population Statistics using 2014 ACS 5-Year Estimates (DP03, S2701) in cooperation with the U.S. Census Bureau

## Yuma County Health Insurance (2014)

	Yuma County	Arizona	United States
Private Coverage Only (Employer, Direct-Purchase, TRICARE)	37.7%	47.0%	52.7%
Public Coverage Only (Medicare, AHCCCS, Veteran's Admin.)	25.8%	21.1%	17.6%
Both Private and Public Coverage (Some combination of the above, ex. Tricare for Life and Medicare)	16.3%	15.6%	15.5%
Uninsured	20.2%	16.3%	14.2%

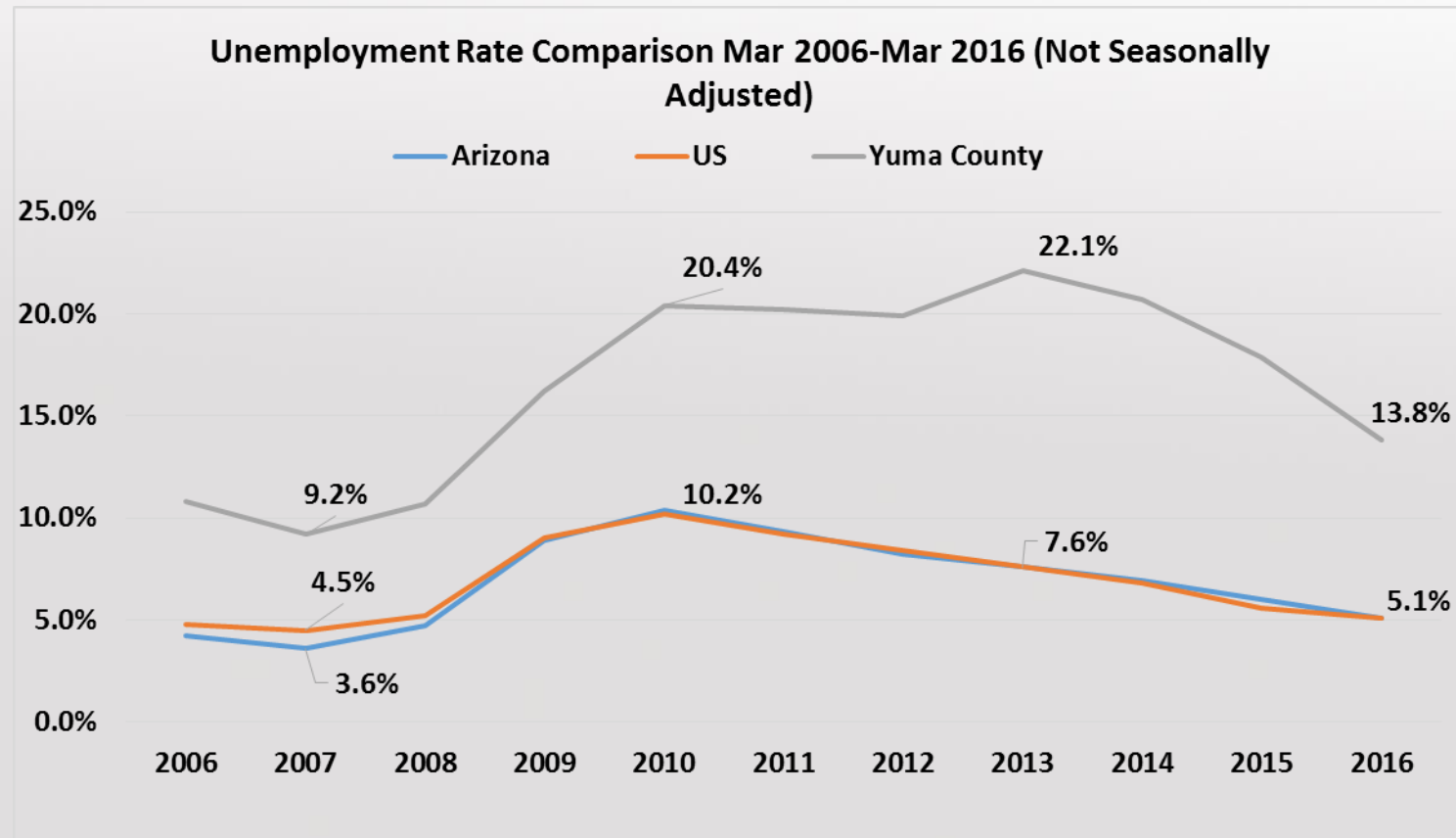
Source: Produced by the Arizona Office of Employment and Population Statistics using 2014 ACS 5-Year Estimates (S2701) in cooperation with the U.S. Census Bureau

## Yuma County Detailed Health Insurance (2014)

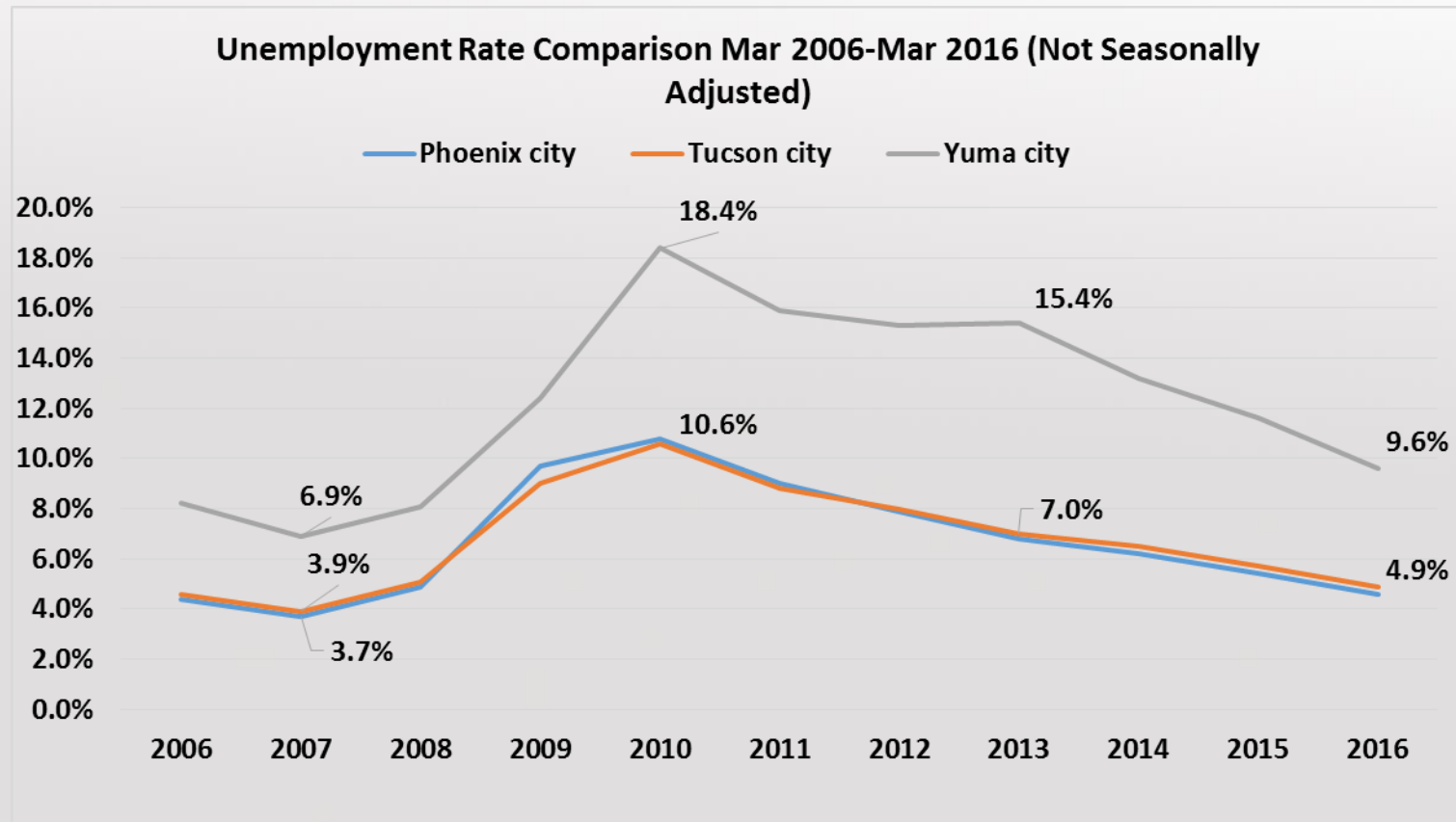
	Yuma County	Arizona	United States
Employment-based (private)	38.6%	48.7%	54.7%
Direct-purchase (private)	10.9%	12.5%	12.4%
TRICARE (private)	5.7%	3.2%	2.7%
Medicare (public)	17.4%	16.5%	15.5%
AHCCCS/Medicaid (public)	25.6%	20.0%	17.8%
VA (public)	2.5%	2.7%	2.1%
Uninsured	20.2%	16.3%	14.2%

Source: Produced by the Arizona Office of Employment and Population Statistics using 2014 ACS 5-Year Estimates (S2701) in cooperation with the U.S. Census Bureau





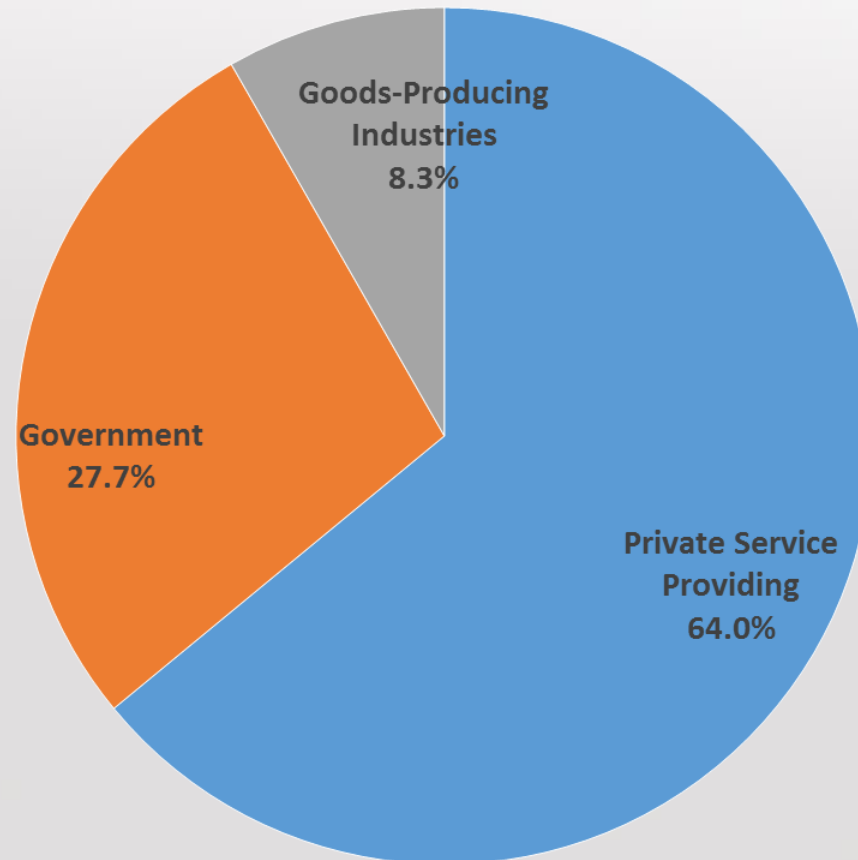
Source: Produced by the Arizona Office of Employment and Population Statistics using LAUS data in cooperation with the U.S. Dept. of Labor, Bureau of Labor Statistics



Source: Produced by the Arizona Office of Employment and Population Statistics using LAUS data in cooperation with the U.S. Dept. of Labor, Bureau of Labor Statistics

## Yuma County Broad Industry Total Nonfarm Employment Share

2015 Annual Average, Not Seasonally Adjusted



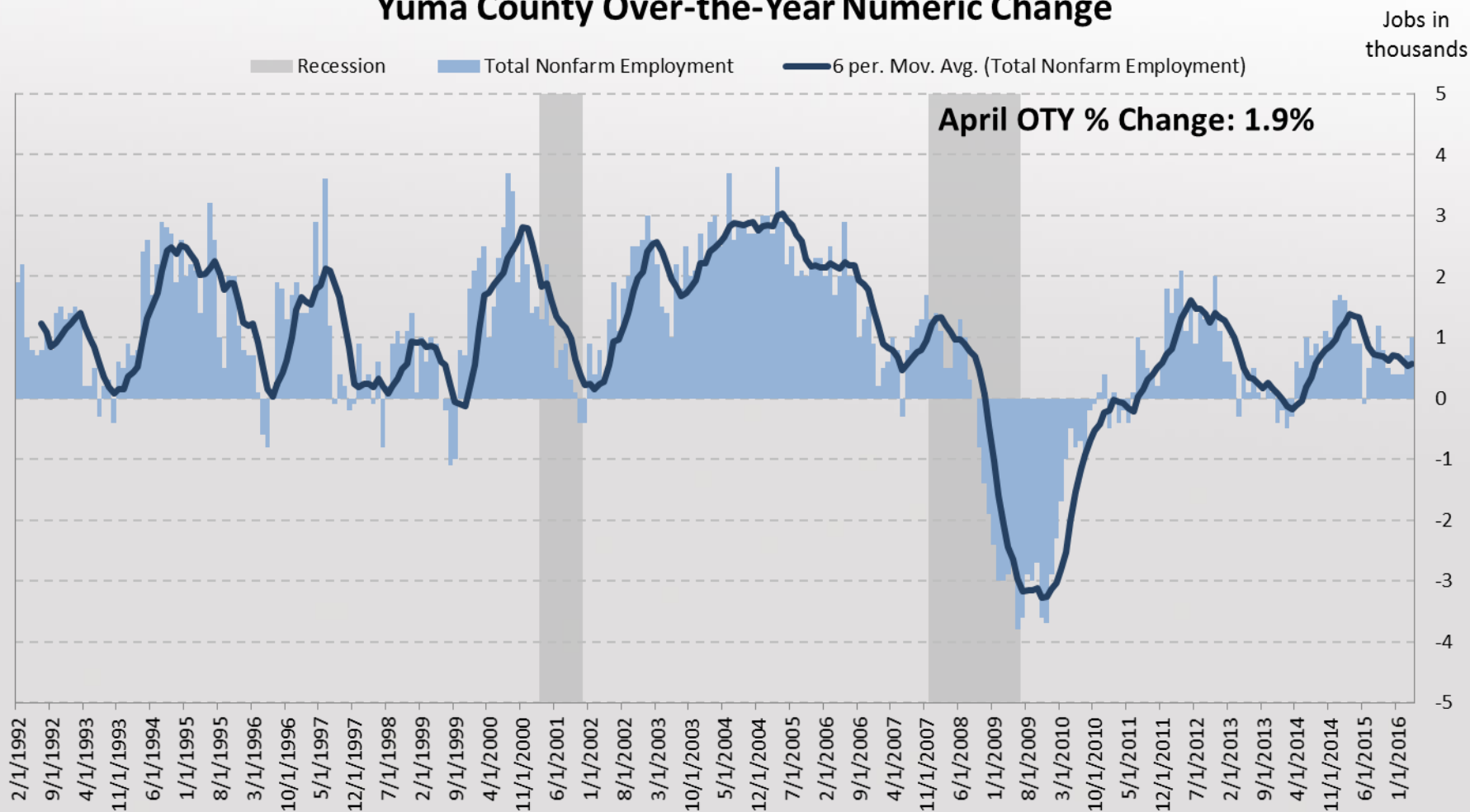
Source: Produced by the Arizona Office of Employment and Population Statistics using CES data in cooperation with the U.S. Dept. of Labor, Bureau of Labor Statistics

## Yuma County Industry Nonfarm Employment Share 2001 & 2015 Annual Averages

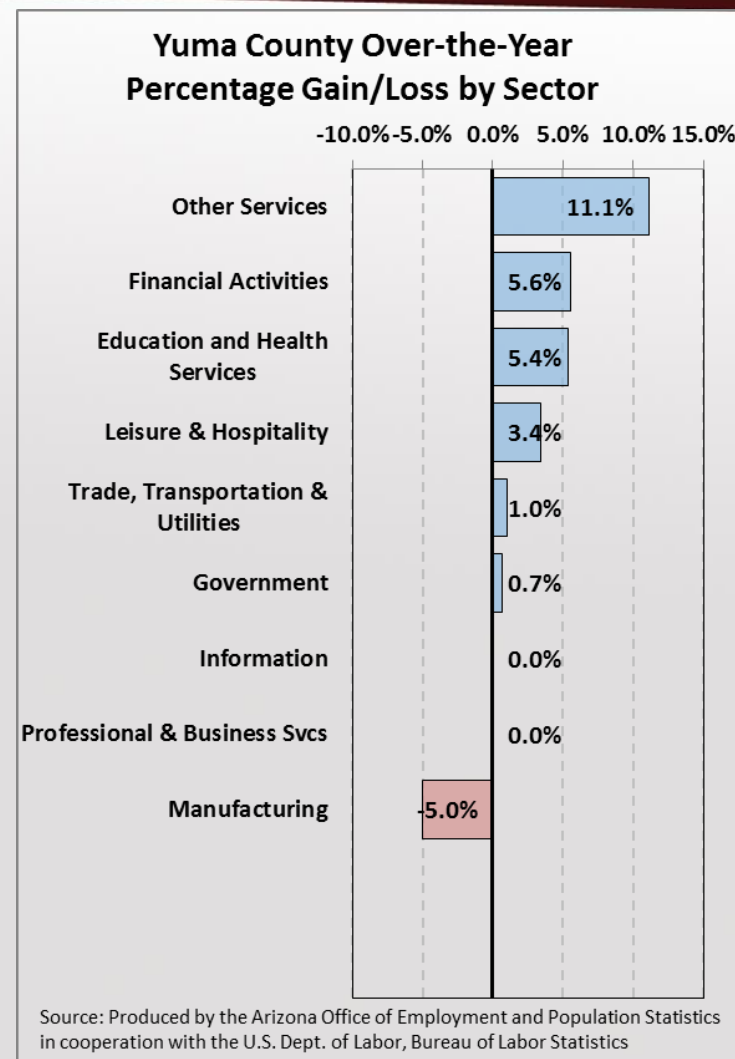
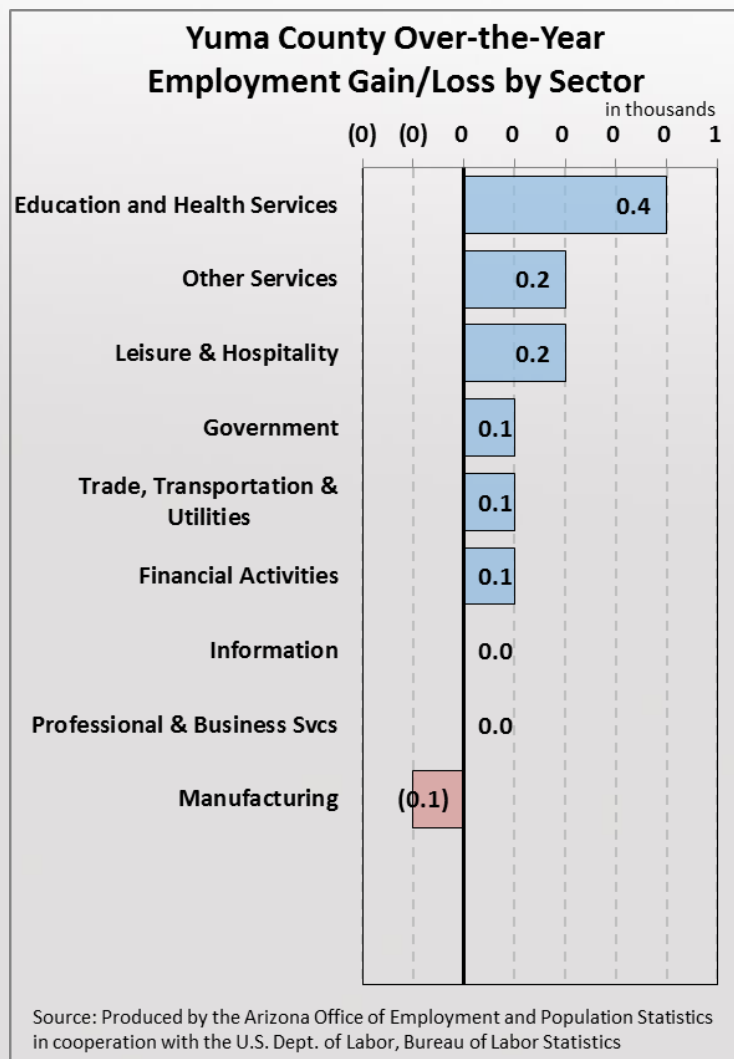
Industry	Employment Share		Change
	2001	2015	
Government	28.6%	27.6%	-0.9%
Private Service Providing	59.0%	63.9%	4.9%
Goods-Producing Industries	12.4%	8.3%	-4.1%
Total Nonfarm Employment	100.0%	100.0%	0.0%

Source: Produced by the Arizona Office of Employment and Population Statistics using CES data in cooperation with the U.S. Dept. of Labor, Bureau of Labor Statistics

## Yuma County Over-the-Year Numeric Change



Source: Produced by the Arizona Office of Employment and Population Statistics using CES data in cooperation with the U.S. Dept. of Labor, Bureau of Labor Statistics



Source: Produced by the Arizona Office of Employment and Population Statistics using CES data in cooperation with the U.S. Dept. of Labor, Bureau of Labor Statistics

## Balance of State Short Term Industry Employment Projections 2015-2017

Industry Code	Industry Title	Base Employment 2015 Q2	Projected Employment 2017 Q2	Numeric Change	Percent Change
101100	Natural Resources and Mining	17,983	17,041	-942	-2.7%
101200	Construction	15,620	16,462	842	2.7%
101300	Manufacturing	16,131	16,826	695	2.1%
102100	Trade, Transportation, and Utilities	75,613	78,389	2,776	1.8%
102200	Information	5,274	5,571	297	2.8%
102300	Financial Activities	12,759	13,529	770	3.0%
102400	Professional and Business Services	30,970	33,189	2,219	3.5%
102500	Education and Health Services	87,318	91,973	4,655	2.6%
102600	Leisure and Hospitality	55,209	59,010	3,801	3.4%
102700	Other Services (Except Government)	9,244	9,289	45	0.2%
102800	Government	44,949	45,325	376	0.4%
102900	Unclassified	24,779	26,176	1,397	2.8%

Balance Of State is Arizona less Maricopa, Pinal, and Coconino counties

Source: Produced by the Arizona Office of Employment and Population Statistics using Projections data in cooperation with the U.S. Dept. of Labor, Bureau of Labor Statistics

## Total Employment by Substate Area Employment Change

	2015 Q2(a)	2017Q2(b)	Employment Change
Arizona	2,718,515	2,875,050	156,535
Phoenix MSA <sub>1</sub>	1,952,031	2,077,030	124,999
Tucson MSA <sub>2</sub>	370,866	385,259	14,393
Balance of State <sub>3</sub>	395,848	412,781	16,933

1) Maricopa and Pinal Counties

2) Pima County

3) Arizona less Maricopa, Pinal and Pima counties

a) Historical

b) Forecast

Source: Produced by the Arizona Office of Employment and Population Statistics using Projections data in cooperation with the U.S. Dept. of Labor, Bureau of Labor Statistics



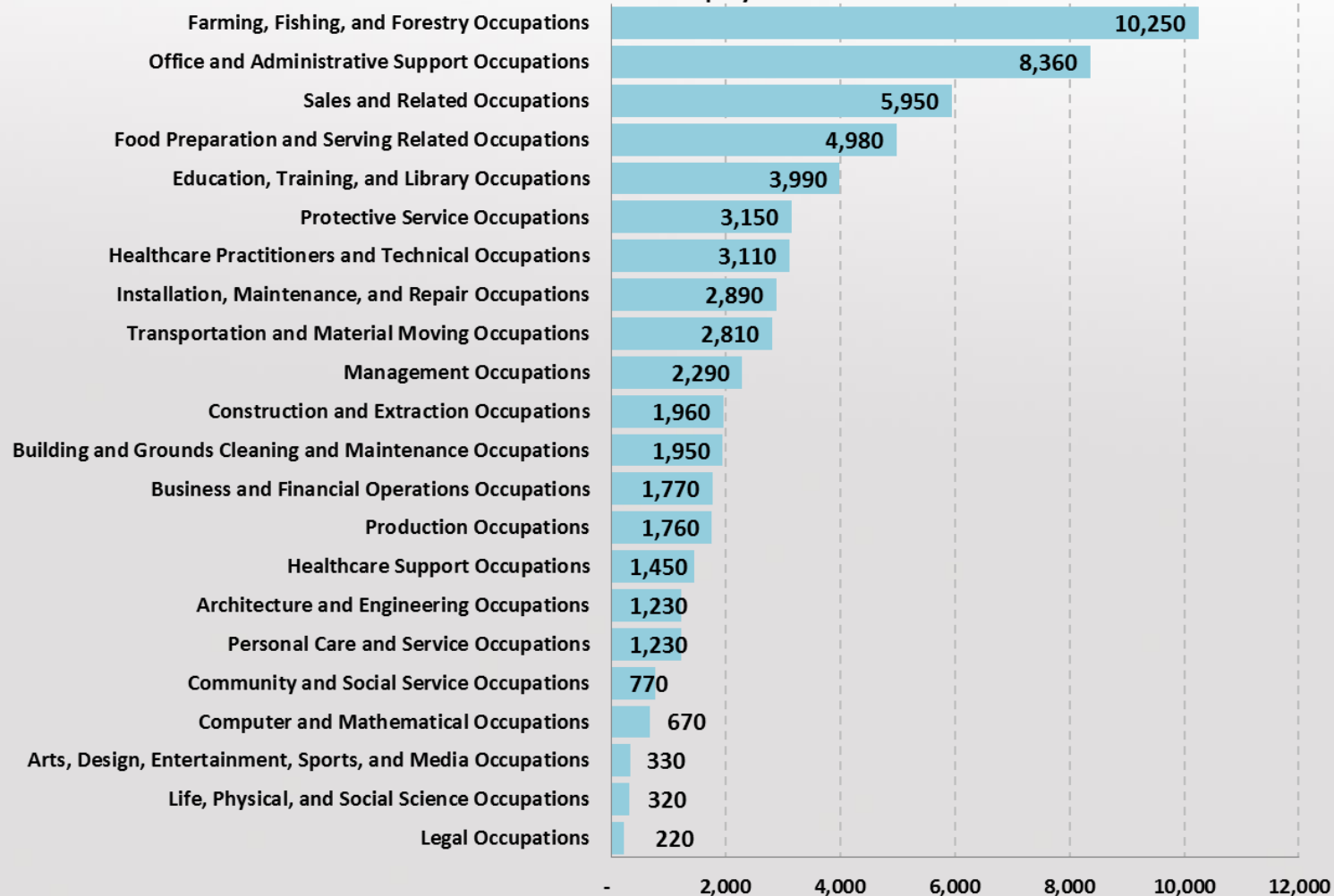
## Total Employment by Substate Area Annual Growth (Compound)

	2013 Q3-2015 Q2(a)	2015 Q3- 2017Q2(b)
Arizona	126,582	156,535
Phoenix MSA <sub>1</sub>	108,475	124,999
Tucson MSA <sub>2</sub>	4,120	14,393
Balance of State <sub>3</sub>	14,182	16,933
1) Maricopa and Pinal Counties		
2) Pima County		
3) Arizona less Maricopa, Pinal and Pima counties		
a) Historical		
b) Forecast		

Source: Produced by the Arizona Office of Employment and Population Statistics using QCEW data in cooperation with the U.S. Dept. of Labor, Bureau of Labor Statistics

## Yuma Major Occupational Groups

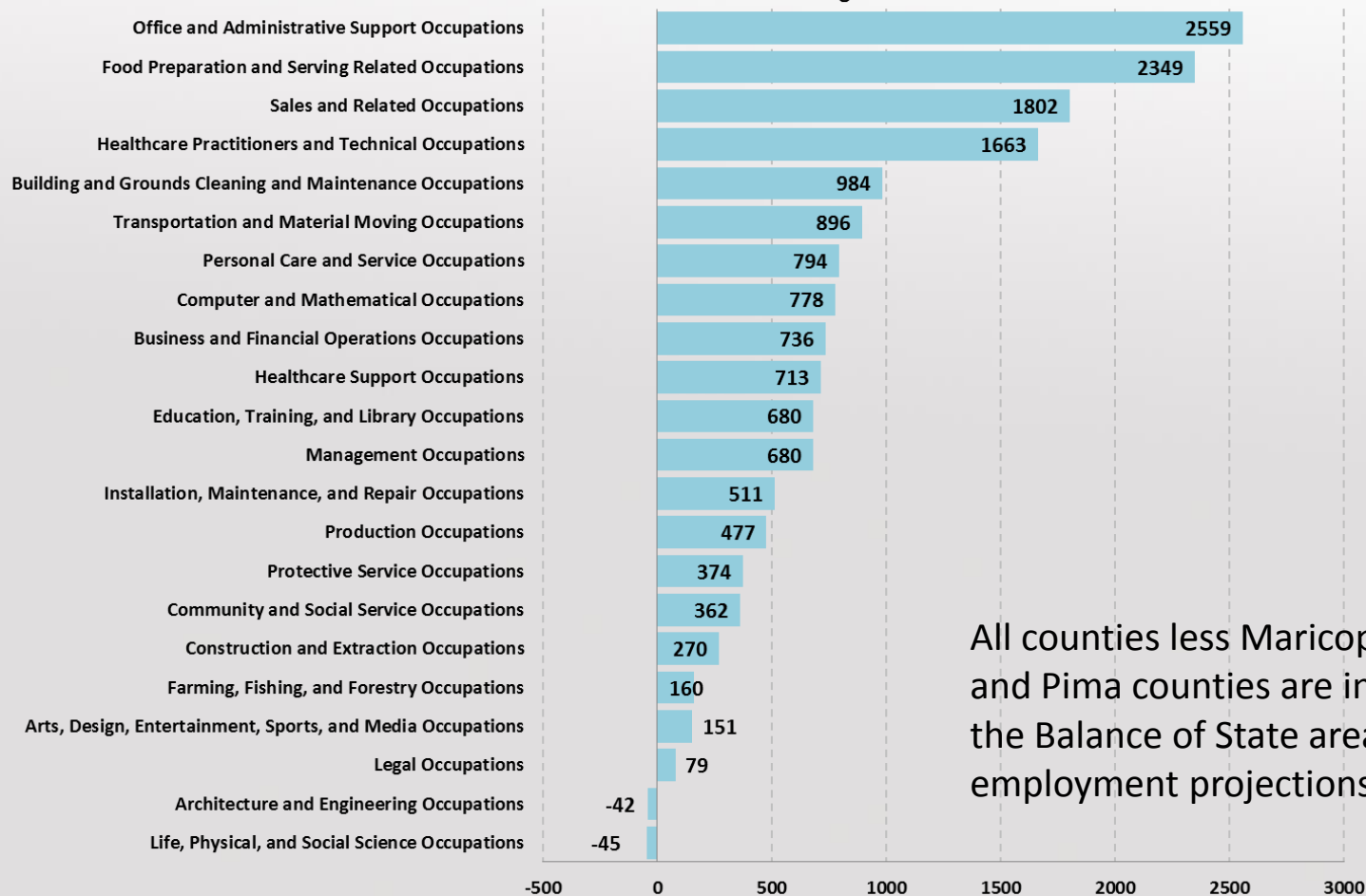
2015 Total Employment



Source: Produced by the Arizona Office of Employment and Population Statistics using OES data in cooperation with the U.S. Dept. of Labor, Bureau of Labor Statistics

## Balance of State Major Occupational Groups

2015 - 2017 Total Numeric Change

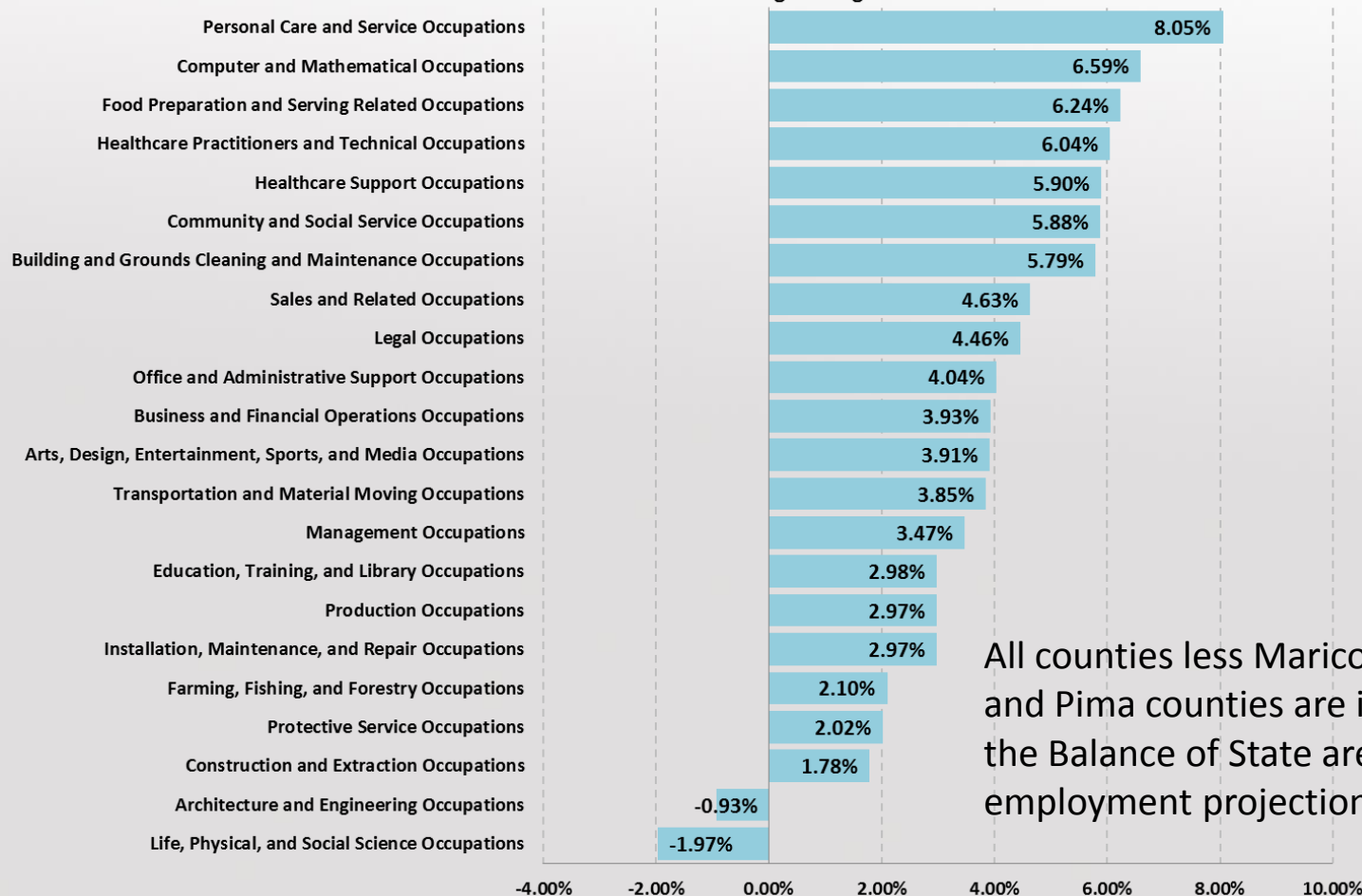


All counties less Maricopa, Pinal, and Pima counties are included in the Balance of State area for employment projections

Source: Produced by the Arizona Office of Employment and Population Statistics using OES data in cooperation with the U.S. Dept. of Labor, Bureau of Labor Statistics

## Balance of State Major Occupational Groups

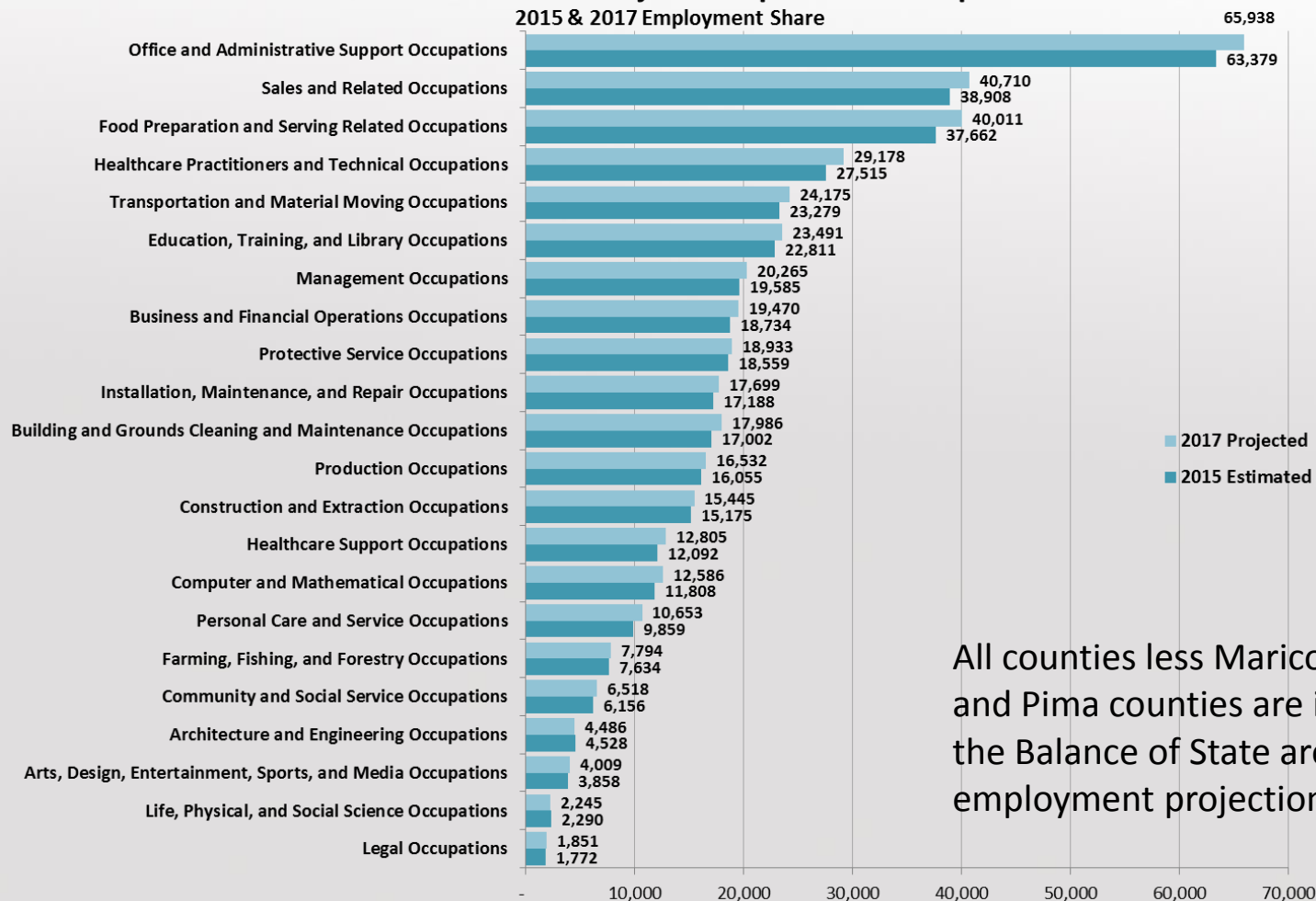
2015 - 2017 Total Percentage Change



All counties less Maricopa, Pinal, and Pima counties are included in the Balance of State area for employment projections

Source: Produced by the Arizona Office of Employment and Population Statistics using OES data in cooperation with the U.S. Dept. of Labor, Bureau of Labor Statistics

## Balance of State Major Occupational Groups



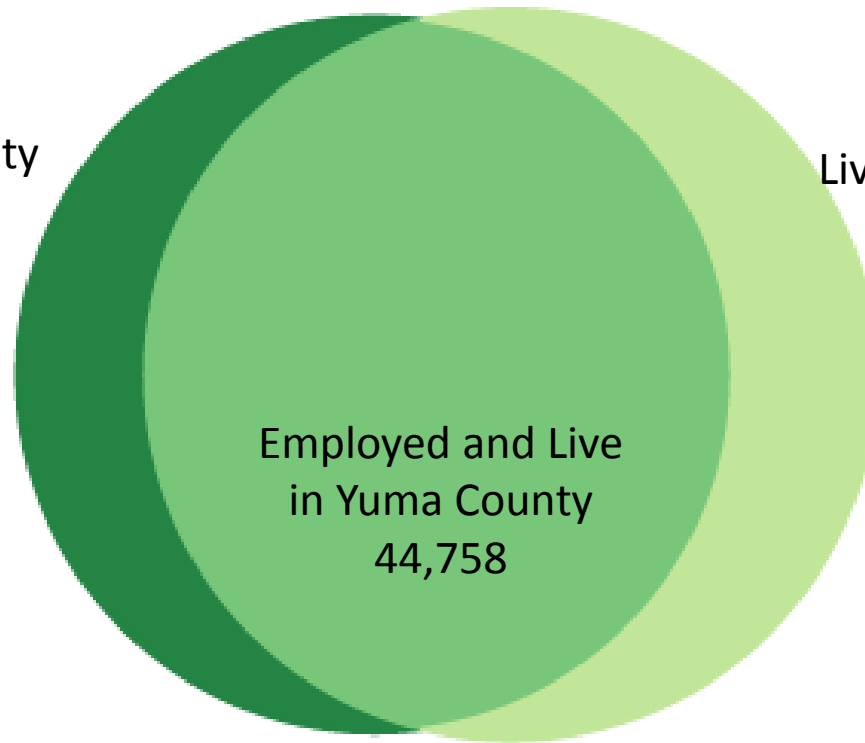
All counties less Maricopa, Pinal, and Pima counties are included in the Balance of State area for employment projections

Source: Produced by the Arizona Office of Employment and Population Statistics using OES data in cooperation with the U.S. Dept. of Labor, Bureau of Labor Statistics

# Yuma County Commuting Patterns

## Yuma County 2014

Employed in Yuma County  
and Live Elsewhere  
11,450

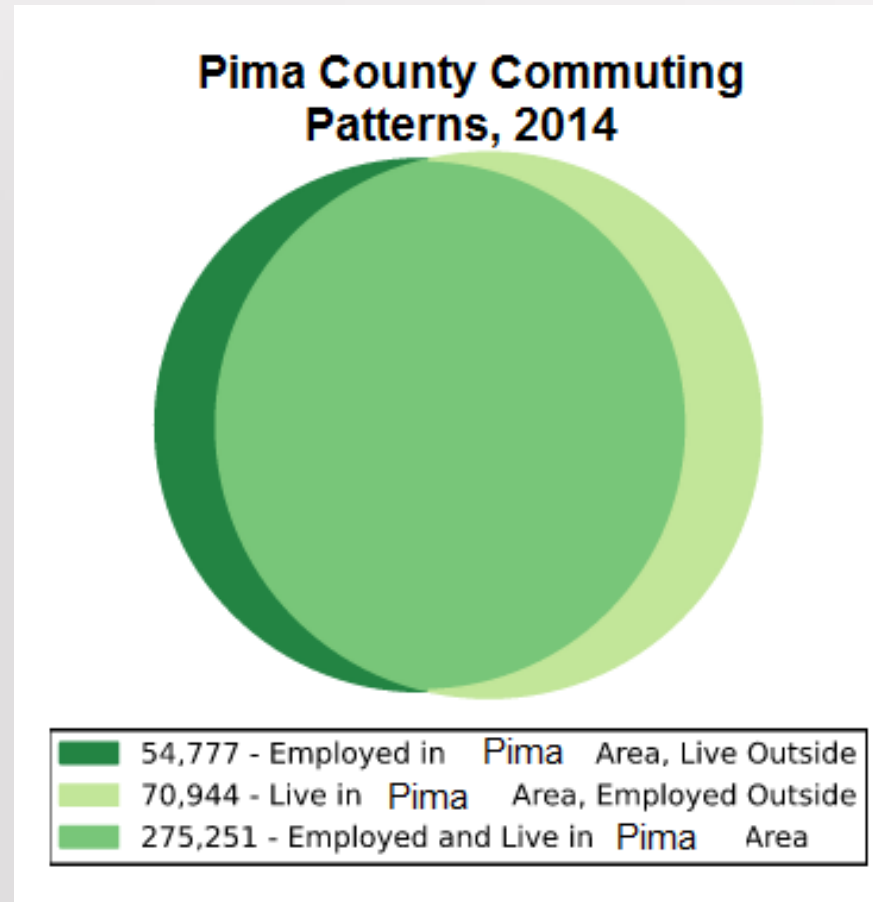


Live in Yuma County and  
Work Elsewhere  
14,732

Employed and Live  
in Yuma County  
44,758

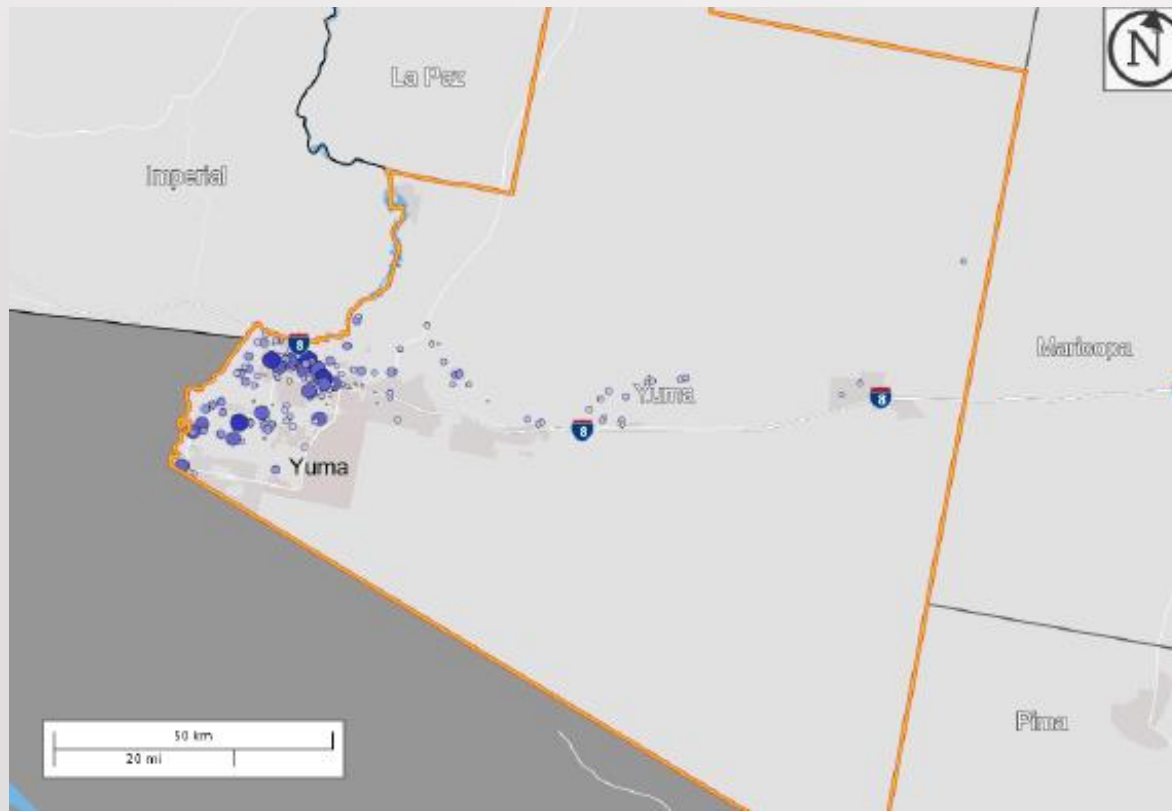
Source: Produced by the Arizona Office of Employment and Population Statistics using On The Map in cooperation with the U.S. Census Bureau

## Compared with Pima County Commuting Patterns



# Locations of Agriculture Jobs

## Yuma County 2014



Source: Produced by the Arizona Office of Employment and Population Statistics using On The Map in cooperation with the U.S. Census Bureau



# Existing and Emerging Industries

## Methodology

- Objective:
  - To identify industries and occupations with favorable labor market traits that support long-term economic and workforce strategies
- Labor market traits include:
  - High employment and wage growth
  - Projected long-term employment growth
  - Competitive advantages in employment and wages

Existing and emerging demand industries were selected based on their overall performance in each labor market indicator category, and an overall ranking score was calculated

## Methodology cont.

Labor market variables were given different weights depending on the importance of each variable when defining existing and emerging demand industry requirements

- **Existing demand industries** were identified as industries with large employment bases and above-average wages
- **Emerging demand industries** were identified as industries with small employment levels and large short-term historic employment and wage growth

## Location Quotient (LQ)

- A location quotient (LQ) is measurement of a region's industrial specialization relative to a larger geographic unit (usually the nation)
- It allows a subject area's distribution of employment by industry to be compared to a base area's distribution
  - Subject Area: Arizona
  - Base Area: United States
- Allows comparison of relative employment and wage levels in the United States, states, counties, & MSAs

## Location Quotient (LQ) Formula

Formula	Job Example	Percent	LQ
<div>Region</div> <div>Industry / Total</div>	<div>Region</div> <div>20 MFG jobs / 100 Total Jobs</div>	<div>Region</div> <div>20%</div>	<b>= 2.0</b>
<div>Nation</div> <div>Industry / Total</div>	<div>Nation</div> <div>100,000 MFG Jobs / 1,000,000 Total Jobs</div>	<div>Nation</div> <div>10%</div>	

## Location Quotient Calculated

### How to interpret:

- $LQ = 1$ : The industry has the same share of employment/wages as the reference area
- $LQ > 1$ : The industry has a higher share of employment/wages as the reference area
- $LQ < 1$ : The industry has a lower share of employment/wages as the reference area

Example: an LQ of 1.0 in mining means that the region and the nation are equally specialized in mining; while an LQ of 1.8 means that the region has a higher concentration in mining than the nation.

## Yuma County

### Existing Demand Industry Detail

#### NAICS 541 Professional and technical services

<b>Average Employment Level</b> <i>(3-Digit Industry; 2014-2015)</i>	<b>2,288</b>
<b>Average Weekly Wage Level</b> <i>(3-Digit Industry; 2014-2015)</i>	<b>\$1,115</b>
<b>Employment Growth</b> <i>(3-Digit Industry; 2014-2015)</i>	<b>-6.9%</b>
<b>Average Wage Growth</b> <i>(3-Digit Industry; 2014-2015)</i>	<b>5.2%</b>
<b>Employment Location Quotient</b> <i>(3-Digit Industry; 2014-2015)</i>	<b>0.6</b>
<b>Wage Location Quotient</b> <i>(3-Digit Industry; 2014-2015)</i>	<b>1.0</b>
<b>Employment Growth</b> <i>(2-Digit Super Sector; 2011-2015)</i>	<b>14.2%</b>
<b>Employment Share Change</b> <i>(2-Digit Super Sector; 2011-2015)</i>	<b>1.6%</b>
<b>Projected Employment Growth</b> <i>(2-Digit Super Sector; 2012-2022)</i>	<b>3.2%</b>

Employment characteristics are provided for each existing and emerging demand industry to identify favorable qualities

## Existing Demand Occupations

### Yuma County

#### Existing Demand Industry Detail

NAICS 541 Professional and technical services

Rank	Occupation Title	Industry Employment Share
1	Lawyers	3.2%
2	Civil engineers	2.5%
3	Training and Development Specialists	6.5%
3	Accountants and Auditors	4.0%
5	Logisticians	0.8%

Top occupations within each industry were identified by wage, employment growth and employment share characteristics



## Yuma County

### Existing Demand Occupation Detail

#### Lawyers

<b>SOC Code</b>	23-1011
<b>Education Requirement</b>	Doctoral or professional degree
<b>Work Experience Requirement</b>	None
<b>On-the-Job Training Requirement</b>	None
<b>Knowledge Requirement</b>	Law and Government
<b>Skill Requirement</b>	Critical Thinking
<b>Ability Requirement</b>	Oral Comprehension
<b>Employment Level</b>	90
<i>(6-Digit SOC Code; 2014)</i>	
<b>Average Hourly Wage</b>	\$46.7
<i>(6-Digit SOC Code; 2014)</i>	
<b>Projected Employment Growth</b>	2.6%
<i>(2-Digit Super Sector; 2012-2022)</i>	
<b>Industry Employment Share</b>	3.18
<i>(6-Digit SOC Code; 2014)</i>	

Occupation requirements are provided to identify the needs of employers

## Model Weighting Structure

### Yuma County

### Existing Demand Industry Detail

Variables	Weight	Constraints	Detail	Period
Average Employment Level	2	Top 33%	3-Digit Industry	2014-2015
Average Weekly Wage Level	3	Top 50%	3-Digit Industry	2014-2015
Employment Growth Numeric	1	na	3-Digit Industry	2014-2015
Employment Growth Percentage	1	na	3-Digit Industry	2014-2015
Average Wage Growth Numeric	1	na	3-Digit Industry	2014-2015
Average Wage Growth Percentage	1	na	3-Digit Industry	2014-2015
Employment Location Quotient	2	na	3-Digit Industry	2014-2015
Wage Location Quotient	2	na	3-Digit Industry	2014-2015
Employment Growth Numeric	1	na	2-Digit Super Sector	2011-2015
Employment Growth Percentage	1	na	2-Digit Super Sector	2011-2015
Employment Share Change	1	na	2-Digit Super Sector	2011-2015
Projected Employment Growth Numeric	1	na	2-Digit Super Sector	2012-2022
Projected Employment Growth Percentage	1	na	2-Digit Super Sector	2012-2022

Existing and Emerging Demand Industries were selected based on thirteen employment characteristics

## Yuma County

### Existing Demand Occupation Detail

Variables	Weight	Detail	Period	Constraints
Average hourly wage	1	6-digit SOC	2014	na
Projected employment change (percentage)	1	6-digit SOC	2012-2022	na
Percentage share of industry employment	1	6-digit SOC	2014	na

Existing and Emerging Demand Occupations were selected based on three employment characteristics

# Data Sources

## Workforce employment and unemployment data

### — BLS products:

- **Quarterly Census of Employment & Wages (QCEW):** UI covered employment & wages by industry
- **Current Employment Statistics (CES):** Nonfarm employment, hours, hourly earnings by industry
- **Occupational Employment Statistics (OES):** Local Area Occupational employment and wages by area and industry
- **Unemployment Statistics (LAUS):** Civilian labor force, employment, unemployment, unemployment rate
- **Source:** <https://laborstats.az.gov/bls-programs>

## Other Labor Market Sources

### Commuting Patterns Data:

On the Map: [onthemap.ces.census.gov/](http://onthemap.ces.census.gov/)

### Demographics Data:

American Community Survey: [census.gov/programs-surveys/acs/](http://census.gov/programs-surveys/acs/)

### Personal Income & State GDP Data:

US Bureau of Economic Analysis: [bea.gov/regional/index.htm](http://bea.gov/regional/index.htm)

### Interactive Employment Mapping:

Maricopa Association of Governments: <http://geo.azmag.gov/maps/azdemographics/>

### Skills and Training Requirement Data:

O\*NET: [onetonline.org/find/descriptor/browse](http://onetonline.org/find/descriptor/browse)

# Any Questions?

## Contact Information

Website: <https://laborstats.az.gov>

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